# **Double Insulated Hammer - Drills**

# Instruction manual





# **IMPORTANT**

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

The Model and Serial No. plate is located on the main housing of the tool. Record these numbers in the spaces below and retain for future reference.

Model No. \_\_\_\_\_\_

Type \_\_\_\_

Serial No. \_\_\_\_\_

Part No. 698573-1912



# IMPORTANT SAFETY INSTRUCTIONS

**WARNING:** When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

# READ AND FOLLOW ALL INSTRUCTIONS.

There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Manager of Product Engineering Porter-Cable Corporation 4825 Highway 45 North P.O. Box 2468 Jackson, TN 38302-2468

- 1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite injuries.
- 2. AVOID DANGEROUS ENVIRONMENT. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep area well lit. Avoid chemical or corrosive environment. Do not use tool in presence of flammable liquids or gases.



THIS SYMBOL DENOTES DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS

CE SIGNE EST L'INDICATION DE NE PAS EXPOSER A LA PLUIE ET NE PAS UTILISER DANS LES EMPLACE-MENTS HUMIDES

- 3. **GUARD AGAINST ELECTRIC SHOCK.** Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
- **4. KEEP CHILDREN AWAY.** Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
- **5. STORE IDLE TOOLS.** When not in use, tools should be stored in dry, and high or locked-up place out of the reach of children.
- **6. DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was intended.
- **7. USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended—for example—do not use a circular saw for cutting tree limbs or logs.
- **8. DRESS PROPERLY.** Do not wear loose clothing or jewelry. Loose clothing, draw strings and jewelry can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- **9. USE SAFETY GLASSES.** Wear safety glasses or goggles while operating power tools. Also face or dust mask if operation creates dust. All persons in the area where power tools are being operated should also wear safety glasses and face or dust mask.
- 10. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.

Have damaged or worn power cord and strain reliever replaced immediately. DO NOT ATTEMPT TO REPAIR POWER CORD.

- 11. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
- DON'T OVERREACH. Keep proper footing and balance at all times.
- 13. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Have all worn, broken or lost parts replaced immediately. Keep handles dry, clean and free from oil and grease.
- **14. DISCONNECT TOOLS.** When not in use, before servicing, and when changing accessories such as blades, bits, cutters, etc.
- **15. REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- **16. AVOID UNINTENTIONAL STARTING.** Do not carry a plugged-in tool with finger on switch. Be sure switch is off when plugging in. Keep hands, body and clothing clear of blades, bits, cutters, etc. when plugging in the tool.
- 17. OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords marked "Suitable for use with outdoor appliances store indoors when not in use."
- **18. STAY ALERT.** Watch what you are doing. Use common sense. Do not operate tool when you are tired or while under the influence of medication, alcohol or drugs.
- 19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.
- **20. WEAR EAR PROTECTION** to safeguard against possible hearing loss.

# SAVE THESE INSTRUCTIONS

# ADDITIONAL SAFETY RULES FOR HAMMER-DRILLS

- 1. **ALWAYS** use auxiliary handle to prevent injury that may result from loss of control because of high rotational force.
- 2. ALWAYS hold drill by <u>BOTH</u> the auxiliary handle and pistol grip handle to prevent accidental electrical shock resulting from cutting a live wire when drilling into a wall or other blind areas. See Fig. 6 for illustration on how to hold drill.

- **3. APPLY** force <u>ONLY</u> on pistol grip handle when drilling. Use auxiliary handle to resist rotational force.
- **4. DO NOT** use bits larger than those recommended. They may cause personal injury due to jamming and loss of control. Large bits may also overload the drill and damage the motor and gears.
- 5. USE only the chuck key to tighten or loosen the chuck.
- **6. VERIFY** that the mode selecting knob, the speed shift knob, and the reversing switch are in correct positions for the operation being performed.
- **7. NEVER** hold work in hand, lap, or against other parts of the body when drilling or hammer-drilling; to avoid injury from contact with the drill bit.
- 8. USE only percussion type carbide-tipped bits when hammer-drilling.
- **9. ALWAYS** wear ear protectors and safety glasses when hammer-drilling.
- **10. DO NOT** attempt to cut through reinforcing rods with percussion type bits.
- 11. SHOULD the drill bit become jammed in the work, release switch trigger immediately to prevent personal injury. Disconnect the drill from the power circuit and remove the drill bit from the work. Do not attempt to free the stalled bit by starting and stopping the motor. This could result in bodily injury.

# **MOTOR**

Many Porter-Cable tools will operate on either D.C., or single phase 25 to 60 cycle A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Several models, however, are designed for A.C. current only. Refer to the specification plate on your tool for proper voltage and current rating.

**CAUTION:** Do not operate your tool on a current on which the voltage is not within correct limits. Do not operate tools rated A.C. only on D.C. current. To do so may seriously damage the tool.

# **EXTENSION CORD SELECTION**

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found below. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

If an extension cord is to be used outdoors it must be marked with the suffix W-A following the cord type designation. For example — SJTW-A to indicate it is acceptable for outdoor use.

	Length of Cord in Feet									
	115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.	500 Ft.
	230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
Ampere Rating	0-2	18	18	18	16	16	14	14	12	12
	2-3	18	18	16	14	14	12	12	10	10
	3-4	18	18	16	14	12	12	10	10	8
	4-5	18	18	14	12	12	10	10	8	8
	5-6	18	16	14	12	.10	10	8	8	6
	6-8	18	16	12	10	10	8	6	6	6
	8-10	18	14	12	10	8	8	6	6	4
Nameplate	10-12	16	14	10	8	8	6	6	4	4
	12-14	16	12	10	8	6	6	6	4	2
	14-16	16	12	10	8	6	6	4	4	2
	16-18	14	12	8	8	6	4	4	2	2
	18-20	14	12	8	6	6	4	4	2	2

# **REPLACEMENT PARTS**

When servicing use only identical replacement parts.

# **OPERATING INSTRUCTIONS**

# **FOREWORD**

Your Porter-Cable Hammer-Drill is designed to drill holes of various sizes in steel and concrete as indicated in the following chart.

MODEL	SPEED	MATERIAL	MAX. HOLE DIA.
7738	0-1000 rpm	Steel	3/8"
		Concrete	1/2"
7750	0-1000 rpm	Steel	1/2"
		Concrete	3/4"
	0-2500 rpm	Steel	5/1 <b>6"</b>
		Concrete	3/8"

# **INSTALLING AND REMOVING DRILL BITS**

- 1. CAUTION: Make sure drill is disconnected from power source.
- 2. The three-jaw chuck is designed for self-centering of the drill bit. Open jaws large enough by turning outer sleeve counterclockwise, when viewing the chuck from the bit end, so that bit shank can be inserted easily.

- 3. Clean and insert smooth end of drill bit as far as it will go into the chuck, or up to the flutes for small bits.
- 4. While holding the bit with one hand, turn outer sleeve clockwise until the bit is gripped in the chuck.
- 5. Tighten chuck insert chuck key into each of 3 keyholes in chuck body (Fig. 1) in succession and tighten securely by turning key clockwise.

**CAUTION** - Be sure chuck key is removed before starting tool.

6. To remove bit, reverse foregoing procedure.

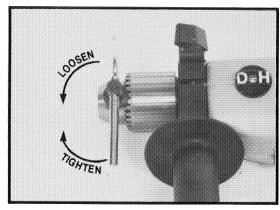


Fig. 1

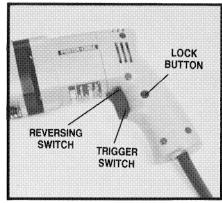


Fig. 2

# TO START AND STOP DRILL

Familiarize yourself with the drill's controls before connecting the drill to a power source.

**CAUTION:** Be sure drill is disconnected from power source.

1. Squeeze TRIGGER SWITCH (Fig. 2) to start motor. Release trigger to stop motor. As the trigger switch is squeezed the drill speed increases.

2. LOCK BUTTON - A lock button is provided to keep the motor running without holding the trigger switch ON. To lock the trigger switch ON, squeeze the trigger as far as it will go, push in lock button and release trigger.

To unlock lock button, squeeze trigger and release, leaving lock button free to spring out.

NOTE: The lock button can be engaged only when the drill is running at maximum speed.

**CAUTION:** Never use the lock button where drill may have to be stopped suddenly.

3. REVERSING SWITCH - Some models are provided with a reversing switch located as indicated in Fig. 2. These models will operate in either the forward direction (clockwise rotation) for drilling holes, or the reverse direction (counterclockwise rotation) for releasing jammed drill bits. For counterclockwise rotation, stop the motor by releasing the trigger switch and move the reversing switch toward the right side of the drill, or in the opposite direction for clockwise rotation.

NOTE: Never attempt to change direction of rotation while switch is "ON". To do so, may damage interlock feature built into switch. Be sure switch is "OFF" and motor has completely stopped before changing direction of rotation.

- 4. Connect drill to power circuit. Make sure power circuit voltage is the same as that shown on the specification plate of the drill. **CAUTION:** Be sure switch is "OFF" before connecting drill to power circuit.
- 5. Operate drill as instructed above.

# **DRILLING OR HAMMER-DRILLING**

By rotating the mode selecting knob (A) Fig. 3, in either direction (clockwise or counterclockwise) the mode of operation may be selected. When the

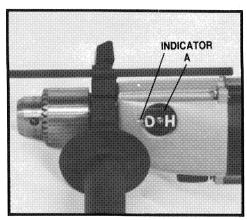


Fig. 3

"D" is towards the indicating mark on the gear case, the drill is in the drilling mode. When the "H" is towards the indicating mark, the drill is in the hammering mode. Mode of operation may be changed when the drill is running.

# TWO SPEED GEAR SHIFT

The Model 7750 Hammer-Drill has a two speed gear shift which provides a high speed of approximately 2500 RPM and a low speed of approximately 1000 rpm (stated speeds are with the trigger switch in "Full-On" position).

**CAUTION:** Be sure drill is disconnected from power source.

For high speed operation, rotate speed selecting knob (A) Fig. 4, clockwise aligning "H" with indicating mark on the gear case. For low speed operation rotate knob counterclockwise aligning "L" with the indicating mark. It may be necessary to rotate the chuck by hand while rotating knob.

# DO NOT SHIFT SPEEDS WHILE TOOL IS RUNNING.

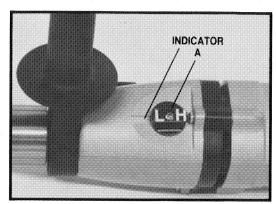


Fig. 4

# **ASSEMBLING AUXILIARY HANDLE**

An auxiliary handle (B) Fig. 5 is provided.

**WARNING:** This auxiliary handle must be used and held as illustrated in Fig. 6 to resist rotational force and to prevent accidental electrical shock, resulting from cutting a live wire when drilling into a wall or other blind areas. It is strongly recommended that the auxiliary handle be used during all drilling operations.

**CAUTION:** Be sure drill is disconnected from power source.

- 1. Insert square nut (A) Fig. 5, into recess in auxiliary handle (B).
- 2. Position clamping plate (C) on auxiliary handle with serations over hex opening.
- 3. Insert clamping screw (D) through clamping plate, auxiliary handle and thread into nut (A). Do not tighten.
- 4. Slide auxiliary handle assembly over chuck and onto front of gear case.
- 5. Locate handle in desired position and align recesses in handle to engage bosses on gear case. Handle may be located in any one of 12 positions 360° around gear case.
- 6. Tighten clamping screw (D) securely.

# INSTALLING AND ADJUSTING DEPTH GAGE

**CAUTION:** Be sure drill is disconnected from power source.

- 1. Loosen clamping screw (D) Fig. 5.
- 2. Insert depth rod (E) Fig. 5 through hole in auxiliary handle being sure serations of rod engage serations on clamping plate (C).

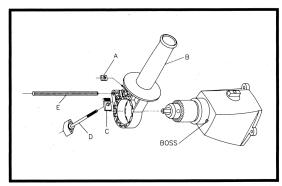


Fig. 5

- 3. Tighten clamping screw (D) securely to retain both auxiliary handle and depth gage.
- 4. Install a drill bit as instructed in INSTALLING AND REMOVING DRILL BITS.
- 5. Loosen clampling screw (D) Fig. 5 and adjust depth gage so that the distance from the end of the depth gage to the tip of the drill bit is equal to the desired depth of hole.

NOTE: If depth gage interferes with drill housing, remove auxiliary handle from gear case, turn it over and reassemble.

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6. Tighten clamping screw (D) securely.

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# **HOW TO HOLD THE HAMMER-DRILL**

**WARNING:** The front end of the drill may be made live if tool drills into live wiring in a wall. TO PREVENT ACCIDENTAL ELECTRICAL SHOCK, DRILL MUST BE HELD AS SHOWN IN FIG. 6.

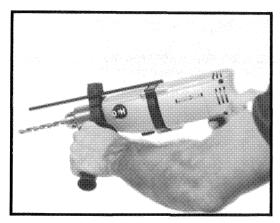


Fig. 6

# **HOW TO USE THE HAMMER-DRILL**

1. Drilling Concrete - Use carbide-tipped masonry bits only. Be sure drill is securely gripped in the chuck and the mode selecting knob is in the "hammer mode" position. Adjust "depth gage rod" for desired depth. Start drill by squeezing the trigger. Place tip of bit in contact with work and apply steady firm pressure.

Avoid allowing Hammer-Drill to bounce or "dance" under its own weight. This could result in damage to both the drill bit and the Hammber-Drill.

**CAUTION:** Extreme care should be taken in the event bit should become jammed in the hole so that drill can be stopped immediately. See Additional Safety Rule, Number 11.

2. Drilling Wood - Be sure drill bit is securely gripped in the chuck and the mode selecting knob is in the "drill mode" position. Make sure work is held securely in a vise or clamped in place prior to starting drilling operation.

**CAUTION:** Loose work may spin and cause bodily injury.

Start drill by squeezing trigger. Place tip of drill in contact with work and apply pressure. When using twist drills in wood, they should be withdrawn from hole frequently to clear chips built up in flutes to avoid

overheating and burning work. Reduce the pressure on the drill just before the bit cuts through the work to avoid splintering wood.

If a backing block is used to keep back of wood from splintering, it should be clamped securely in place. If a backing is not used with spade bits or hole saws, ease up pressure as sson as bit point breaks through work and complete hole from opposite side.

3. Drilling Metal - Use only good quality high speed steel twist drills. Be sure drill bit is securely gripped in the chuck and the mode selecting knob is in the "drill mode" position. Make sure work is held securely in a vise or clamped in place prior to starting drilling operation.

**CAUTION:** Loose work may spin and cause bodily injury.

For easy starting and to keep drill bit from "walking", use a center punch to make a small impression in the metal. Start drill by squeezing trigger. Place tip of drill bit in impression and exert only enough pressure to keep bit cutting.

**CAUTION:** DO NOT FORCE. Too much pressure may cause bit to break or overheat resulting in bodily injury or damaged drill bits. Too little pressure will keep the bit from cutting and dull the edges due to excessive friction created by sliding over the surface.

When drilling a large hole, it is easier to first drill a smaller hole and then enlarge it to the required size. The use of a lubricant, such as oil, on the drill point helps keep the bit cool, increases drilling action and prolongs drill bit life.

# **MAINTENANCE**

# **KEEP TOOL CLEAN**

Periodically blow out all air passages with compressed air. All plastic parts should be cleaned with soft cloths. NEVER use solvents when cleaning plastic parts. They could possibly dissolve or otherwise damage the material.

**CAUTION:** Wear safety glasses when using compressed air to blow out air passages.

# **FAILURE TO START**

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the oulet. Also, check for blown fuses or open circuit breakers in the line.

# **BRUSH INSPECTION AND LUBRICATION**

**CAUTION:** For your continued safety and electrical protection, brush inspection and replacement on this tool should ONLY be performed by an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE SERVICE CENTER.

At approximately 100 hours of use, take or send your tool to your nearest Authorized Porter-Cable Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, if required; reassembled with new brushes; and performance tested.

Any loss of power before the above maintenance check may indicate the need for immediate servicing of your tool. DO NOT CONTINUE TO OPERATE TOOL UNDER THIS CONDITION. If proper operating voltage is present, return your tool to the Service Station for immediate service.

# **SERVICE AND REPAIRS**

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We can not guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.)

# **ACCESSORIES**

The testing of this tool has been accomplished with the following accessories. For safest operation, it is recommended that only these accessories be used with this product. Select accessories which are within the capacity of your drill as specified in the FOREWORD section of this manual.

# TWIST DRILLS

# PERCUSSION TYPE CARBIDE TIPPED DRILLS

MODELS 7738 and 7750 may be used to install TAP-CON® Fasteners. Follow the Fastener Manufacturer's Instructions.

® TAP-CON is a registered trademark of the Buildex Division of I.T.W.

# PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which examination proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station as listed under "TOOLS-ELECTRIC" in the Yellow Pages of your telephone directory. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, P.O. Box 2468, Jackson, Tennessee 38302-2468; Attention: Product Service. The foregoing obligation is Porter-Cable's sole liability under this or any implied warranty and under no circumstances shall Porter-Cable be liable for any incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts on the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

# **PORTER-CABLE SERVICE CENTERS**

Parts and Repair Service for Porter-Cable Power Tools are Available at These Locations

### AL ARAMA

Birmingham 35209 131 W. Oxmoor Rd., Suite 105 Phone: (205) 942-6325 Fax: (205) 945-9615

### CALIFORNIA

City of Industry 91745 (Los Angeles) 1305 John Reed Court Phone: (818) 333-3566 Fax: (818) 330-5900

San Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (415) 357-9762 Fax: (415) 357-7939

### COLORADO

Denver 80204 2561 West 8th Avenue Phone: (303) 892-6113 Fax: (303) 595-0358

Hialeah 33014 (Miami) 16373-75 NW 57th Ave. Phone: (305) 624-2523 Fax: (305) 628-2654

Tampa 33609 4538 W. Kennedy Boulevard Phone: (813) 877-9585 Fax: (813) 289-7948

### GEORGIA

Morrow 30260 (Atlanta) 1286 Citizens Parkway Suite C Phone: (404) 961-0900 Fax: (404) 961-8624

### II I INOIS

Addison 60101 (Chicago) 311 Laura Drive Phone: (708) 628-6100 Fax: (708) 628-0023

### MARYLAND

Baltimore 21227 7397 Washington Blvd. 7397 Washington Blvd. Suite #102 Phone: (410) 799-9394 Fax: (410) 799-9398

### MASSACHUSETTS

Franklin 02038 Franklin Industrial Park 101 E Constitution Blvd. Phone: (508) 520-8802 Fax: (508) 528-8089

# MICHIGAN

Grand Rapids 49508 Broadmoor Business Center 3755 G Broadmoor S.E. Phone: (616) 949-9040 Fax: (616) 949-3164

Southfield 48075 (Detroit) 18650 W. Eight Mile Road Phone: (313) 569-4333 Fax: (313) 569-4337

### MINNESOTA

Minneapolis 55429 4315 68th Avenue North Phone: (612) 561-9080 Fax: (612) 561-0653

### MISSOURI

North Kansas City 64116 1141 Swift Avenue P.O. Box 12393 Phone: (816) 221-2070 Fax: (816) 221-2897

St. Louis 63119 7574 Watson Road Phone: (314) 968-8950 Fax: (314) 968-2790

### **NEW JERSEY**

Union 07083 Phone: (908) 964-1730 Fax: (908) 688-6679

# NEW YORK

Flushing 11365-1595 (N.Y.C.) 175-25 Horace Harding Expwy. Phone: (718) 225-2040 Fax: (718) 423-9619

# NORTH CAROLINA

Charlotte 28209 4303-B South Boulevard Phone: (704) 525-4410 Fax: (704) 525-0618

### оню

Columbus 43214 4560 Indianola Avenue Phone: (614) 263-0929 Fax: (614) 263-1238 Cleveland 44125 Cleveland 44125 8001 Sweet Valley Dr., Unit #18 Phone: (216) 447-9030 Fax: (216) 447-3097

# PENNSYLVANIA

Philadelphia 19154 12285 McNulty Road Phone: (215) 677-7800 Fax: (215) 677-9908

# TEXAS

Dallas 75220 10720 N. Stemmons Freeway Phone: (214) 353-2996 Fax: (214) 350-3943

Houston 77092 5201 Mitchelldale B-9 Phone: (713) 682-0334 Fax: (713) 682-4867

### WASHINGTON

Renton 98055 (Seattle) 268 Southwest 43rd Street Phone: (206) 251-6680 Fax: (206) 251-9337

### WISCONSIN

Milwaukee 53222 10700 W. Burleigh Street Phone: (414) 774-3650 Fax: (414) 774-3653

Authorized Service Stations are located in all large cities. For the one nearest you, see the classified section in your phone book (under "Tools-Electric").

# **DELTA SERVICE CENTRES**

# (CENTRES D'ENTRETIEN DELTA)

#10 6320 11th Street S.E. Calgary, Alberta T2H 2L7 Phone: (403) 255-3530 Fax: (403) 258-0767

10632 169th Street Edmonton, Alberta T5P 3X6 Phone: (403) 489-5587 Fax: (403) 489-0465

# BRITISH COLUMBIA

45 West 7th Avenue Vancouver, B.C. V5Y 1L4 Phone: (604) 879-8622 Fax: (604) 879-4594

1699 Dublin Avenue Winnipeg, Manitoba R3H 0H2 Phone: (204) 633-9259 Fax: (204) 632-1976

# ONTARIO

644 Imperial Road Guelph, Ontario N1H 6M7 Phone: (519) 836-2840 Fax: (519) 836-9352

6463 Northam Drive Mississauga, Ontario I 4V 1.12 Phone: (416) 677-5330 (416) 677-5332 Fax: (416) 677-3728

# 851 Richmond Road Ottawa, Ontario

K2A 3X2 Phone: (613) 728-1124 (613) 728-4535 Fax: (613) 728-9208

523 Rue Deslauriers St. Laurent, (Montreal) P.Q. H4N 1W2 Phone: (514) 336-8772 Fax: (514) 336-3505

Suite 202 2022 Rue Layoisier Ste. Foy, Quebec, Quebec G1N 4L5 Phone: (418) 681-7305

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